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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,412	08/28/2006	Peter Radziszewski	771/11168.293	4043

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EXAMINER

GISSEL, GUNNAR J

ART UNIT	PAPER NUMBER
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2856

NOTIFICATION DATE	DELIVERY MODE
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09/29/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

afovero@ggd.com
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Office Action Summary	Application No. 10/598,412	Applicant(s) RADZISZEWSKI ET AL.	
	Examiner Gunnar J. Gissel	Art Unit 2856	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-80 is/are pending in the application.
- 4a) Of the above claim(s) 1-10 and 25-80 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 11-15 and 21 is/are rejected.
- 7) ☐ Claim(s) 16-20 and 22-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 August 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Reference numeral 114 is shown in figure 5, but is not discussed in the specification. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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2. Claims 11-15, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent Application Publication 2001/0001236 to Rickie Lake (Lake).

Regarding Claim 11, Lake discloses a sensor for detecting erosion of a wear surface of a component, the sensor comprising: at least one conductive trace on a substrate (Lake, conductive trace 118a), said substrate attached to the component such that a wearing portion of said trace between a first trace end and a second trace end comes within a predetermined distance from the wear surface (Lake, figure 6, trace 118a); and a circuit for sensing when said first end is isolated from said second end (Lake, circuit 300).

Regarding Claim 12 Lake further discloses that the component comprises a second non-wear surface intersecting the wear surface, and wherein said substrate is fastened to the non-wear surface (Lake, figure 13, wear surface as adjacent to hatched area, or the outer wall, non-wear surface is adjacent to non-hatched area, or the inner wall).

Regarding Claim 13, Lake discloses an adhesive for fastening said substrate to the non-wear surface (Lake, paragraph 57, adhesive 316).

Regarding Claim 14, Lake discloses that said substrate is a PCB (Lake, PCB 302).

Regarding Claim 15. The sensor of Claim 14, wherein said PCB is flexible (Lake, paragraph 12).

Regarding Claim 21, Lake discloses that said substrate is embedded in the component (Lake, paragraph 57).

Allowable Subject Matter

3. Claims 16-20, 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
4. The following is a statement of reasons for the indication of allowable subject matter: Claim 15 indicates that the flexible PCB is rolled up, and while the prior art discloses flexible PCBs, it does not indicate that the PCBs are rolled up. Claims 17-20 rely on Claim 15. Claim 22 indicates that a cavity is machined into the object having the wear surface, and the prior art indicates the presence of cavities, but does not disclose how the cavities are formed. The examiner notes that the machining of cavities explicitly rules out the possibility of casting cavities. Claims 23 and 24 rely on Claim 22

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 4,655,077 concerns a wear sensor. US 4,884,434 concerns an optical wear sensor. US 2006/0011452 concerns a flexible wear sensor. US 6,471,449 concerns a printable wear sensor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gunnar J. Gissel whose telephone number is (571)274-3411. The examiner can normally be reached on Mon-Fri, 7:30AM-5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571)272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GJG/

9/17/2008

/Hezron Williams/

Supervisory Patent Examiner, Art Unit 2856